## WHAT IS CLAIMED IS:

1	1. A method of treating a subject having a disorder characterized by the presence of
2	one or more tumors comprising inserting one or more miniaturized concentrated neutron
3	emitting source(s) into said tumor(s) and maintaining the source(s) in the tumor for a time
4	sufficient to eradicate the cells of the tumor(s).
	2. The method of claim 1, wherein said tumor is malignant.
1	3. The method of claim 2, wherein said tumor is located in said
2	subject's brain, cervix, oral cavity, esophagus, skin, lung, bladder, pancreas,
3	prostate, intestine, stomach, thyroid gland, ovary, breast, or kidney.
1	4. The method of claim 2, wherein said tumor is located in said
2	subject's brain.
1	5. The method of claim 4, wherein said tumor is a glioblastoma, an astrocytoma, a
2	schwannoma, a malignant meningioma, an oligodendroglioma, a medulloblastoma, or a
3	ependymoma.
1	6. The method of claim 1, wherein said miniaturized concentrated neutron emitting
2	source comprises californium-252.
1	7. A method of treating a subject having a disorder characterized by the presence of
2	one or more tumors comprising surgically removing the majority of said tumor(s) and
3	subsequently inserting a miniaturized concentrated neutron emitting source into the space

4	previously occupied by the tumor(s) for a time sufficient to eradicate any tumor cells not
5	surgically removed.
	8. The method of claim 7, wherein said tumor is malignant.
1	9. The method of claim 8, wherein said tumor is located in said
2	subject's brain, cervix, oral cavity, esophagus, skin, lung, bladder, pancreas,
3	prostate, intestine, stomach, thyroid gland, ovary, breast, or kidney.
1	10. The method of claim 7, wherein said tumor is located in said
2	subject's brain.
1	11. The method of claim 10, wherein said tumor is a glioblastoma, an astrocytoma
2	a schwannoma, a malignant meningioma, an oligodendroglioma, a medulloblastoma, or a
3	ependymoma.
1	12. The method of claim 7, wherein said miniaturized neutron emitting source
2	comprises californium-252.
1	13. The method of claim 1 or claim 7, further comprising localizing a neutron
2	capture compound to the cells of said tumor prior to insertion of said miniaturized neutron
3	source.
1	14. The method of claim 13, wherein said neutron capture compound comprises
2	boron-10.

- 15. The method of claim 13, wherein said neutron capture compound comprises
  gadolinium-157.
  16. The method of claim 13, wherein said neutron capture compound is localized to
- 2 said tumor cells by systemic administration of said compound.
- 1 17. The method of claim 13, wherein said neutron capture compound is localized to 2 said tumor cells by direct administration of said compound to said tumor cells.
- 18. The method of claims 1 or 7, wherein said miniaturized concentrated neutron
  emitting source is 3 6 mm in length, has an outside diameter of .50 -2 mm, and comprises
  between 100μg and 1 mg of californium-252.